



SUPREME ENTERPRISE

Industrial Valves

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Doc. No.	SV-DATA-2026-FLOAT_STEAM_TRAP_WCB_FLANGED			Page	1 OF 1
Rev.	A			Date	13-Jun-2026
Float Steam Trap WCB Flanged -- Technical Datasheet					
R	REFERENCES & RELATED DOCUMENTS				
R1	P&ID / Process Diagram	N/A -- Product Datasheet	Piping Material Spec.	N/A -- Product Datasheet	
R2	Project Standard / Spec.	EN 26704 / ISO 6704, ASME B16.34			
1	GENERAL				
2	P&ID No. / Tag No.	N/A -- Product Datasheet	Piping Class	PN16 / Class 150 – 300	
3	Valve Tag / Item No.	N/A -- Product Datasheet	Quantity Required	As required	
4	Design Standard	EN 26704 / ISO 6704, ASME B16.34		Pressure Class / Rating	PN16 / Class 150 – 300
5	Valve Size, Inlet x Outlet	1/2" to 4" (DN15 – DN100)		End Connection	Flanged RF per ASME B16.5 / Screwed BSP-NPT
6	Valve Type / Model	Float Steam Trap WCB Flanged		Operation Mode	Ball float modulates against the valve head to discharge condensate continuously without steam loss -- integral thermostatic air vent prevents air-binding on heat exchangers and process equipment
6A	Service / Application	Heat Exchangers, Process Equipment, Condensate Drainage, Steam Mains		Fluid State	Liquid / Gas / Steam (as applicable)
7	DESIGN CONDITIONS				
8	Design Pressure	PN16 / Class 150 – 300		Design Temp. Min / Max	-10°C to +550°C (HT steam) -- per project
9	Operating Pressure	PN16 / Class 150 – 300		Operating Temp.	Saturated / superheated steam -- project-specific
10	Set / Relief Pressure	N/A -- Product Datasheet		Back Pressure	N/A -- Product Datasheet
11	Fluid Handled / Service	Heat Exchangers, Process Equipment, Condensate Drainage, Steam Mains		Corrosion Allowance	As per project specification
12	Required Capacity / Flow Rate	As per valve size and pressure class		Location / Installation	Indoor / Outdoor / Offshore / Marine (as applicable)
13	VALVE OPERATION REQUIREMENT				
14	Type of Valve Operator	Ball float modulates against the valve head to discharge condensate continuously without steam loss -- integral thermostatic air vent prevents air-binding on heat exchangers and process equipment		Actuator Specification	ISO 5211 pad (actuated) -- Electric / Pneumatic / Hydraulic on request
15	Fail-Safe Position	As per project / application requirements		Accessories Required	Limit switches, positioners, solenoid valves, manual override -- on request
16	VALVE MATERIAL SPECIFICATION (EQUIVALENT OR SUPERIOR)				
	Valve Part	Specified Material		Proposed Material (Supreme Valves India)	
	Body	As per project specification		ASTM A216 WCB / Cast Iron	
	Bonnet / Cover	As per standard		As per standard / matching body grade	
	Trim (Disc / Seat)	As per standard		Stainless Steel 304 / 316 ball float / Stainless Steel 316, hardened	
	Stem / Spindle	As per standard		As per standard	
	Gasket / Packing	As per standard		Spiral wound SS316 + graphite	
	Bolting / Nuts	As per standard		ASTM A193 B7 / A194 2H	
	Mechanism	As per standard		Lever + valve head, SS316	
	Air Vent	As per standard		Thermostatic / balanced-pressure auto air vent	
17	TESTING, INSPECTION & CERTIFICATION REQUIREMENTS				
18	Hydrostatic Shell Test	Hydrostatic 1.5x max operating pressure		Seat / Pneumatic Test	Air / steam tightness per EN 26704
19	NDT Requirements	100% MPI / DPT on machined surfaces (if specified) -- Radiography / Ultrasonic on request			
20	Required Certificates / MTC	EN 10204 3.1 MTC (standard) -- EN 10204 3.2 / third-party inspection on request			
21	Witness / Inspection Agency	Client / TPI representative (if specified)		Third Party Inspection	TUV / SGS / BV / Lloyds Register (client cost)
22	PAINTING, PRESERVATION & PACKING				
23	Painting / Coating Specification	Standard: one coat primer + two coats synthetic enamel (colour per client spec) -- special coatings (epoxy, PTFE, rubber lining) on request			

24	Packing Requirement	Wooden cases / pallets with VCI protection -- sea-worthy packing for export on request
26	NOTES	
<ol style="list-style-type: none"> 1. This datasheet covers standard specifications for Float Steam Trap WCB Flanged. 2. Design Standard: EN 26704 / ISO 6704, ASME B16.34. 3. Application / Service: Heat Exchangers, Process Equipment, Condensate Drainage, Steam Mains. 4. Size Range: 1/2" to 4" (DN15 – DN100). Pressure Rating: PN16 / Class 150 – 300. 5. All valves are manufactured new and unused by an ISO 9001 compliant foundry. 6. Material Test Certificates (MTC) per EN 10204 3.1 provided as standard; EN 10204 3.2 available on request at additional cost. 7. Testing performed per ISO 5208 / API 598: shell test at 1.5x rated pressure, seat test at 1.1x rated pressure -- bubble-tight zero leakage. 8. Face-to-face dimensions per ASME B16.10 / BS 2080 / manufacturer standard unless otherwise specified. 9. Marking per MSS SP-25: Size, Pressure Class, Material, Heat Number, Tag Number, Serial Number, Flow Direction. 10. Alternative / upgraded materials: Full SS316 internals for corrosive condensate; steam-lock release option on request. 11. Actuated valves (electric, pneumatic, hydraulic) supplied with ISO 5211 mounting pad and position indicator. 12. Third-party inspection by TUV, SGS, Bureau Veritas, or Lloyds Register available on request at client cost. 13. This datasheet is for general reference. Firm specifications to be confirmed upon receipt of confirmed Purchase Order with technical requirements. 14. For specific project requirements, deviation forms, or material substitutions, please contact our engineering team. 		

RH	REVISION HISTORY			
	Rev.	Date	Description of Change	Prepared / Reviewed / Approved
	A	13-Jun-2026	Initial issue -- Product datasheet generated from standard catalogue	Supreme Valves India -- Technical Department
AP	DOCUMENT APPROVAL			
	PREPARED BY Supreme Valves India -- Technical Department, Ahmedabad	REVIEWED BY	APPROVED BY	
	_____	_____	_____	
	Signature / Date	Name / Signature / Date	Name / Signature / Date	